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Water Supply Outlook For Wyoming



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

STATE ENGINEER of WYOMING

AS OF
FEB. 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR WYOMING

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D. C.



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CASPER, WYOMING

In Cooperation with

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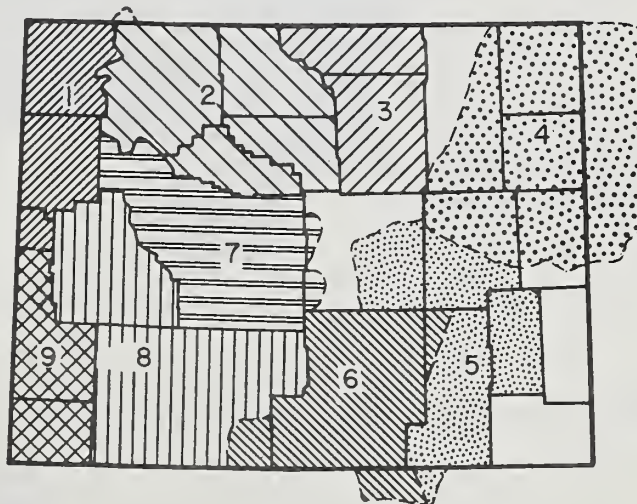
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Basic Data Supplement 1 - Snow data

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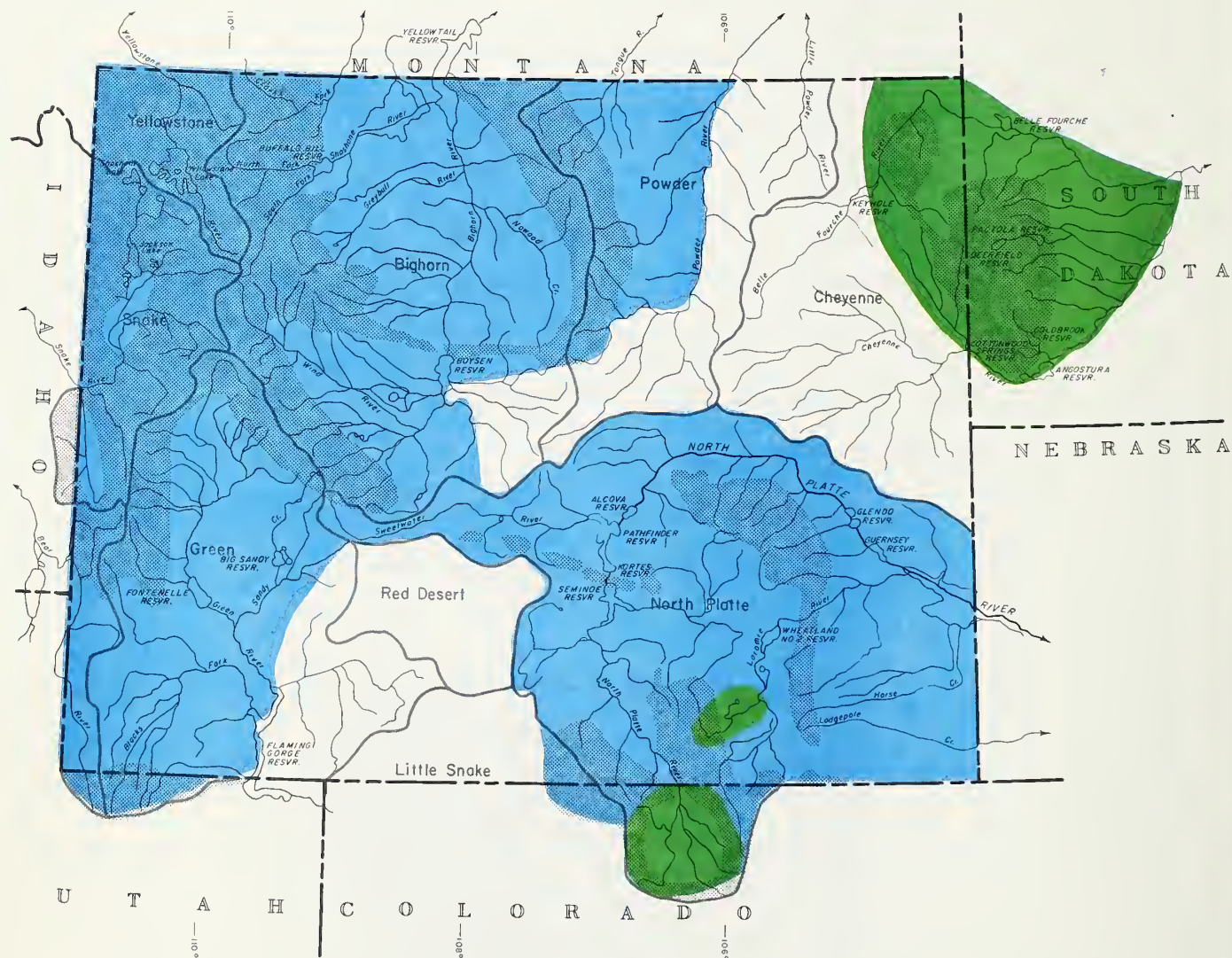


WATERSHED AREA LOCATIONS

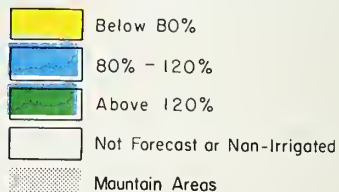
PROSPECTIVE WATER SUPPLIES FOR WYOMING SPRING AND SUMMER PERIOD

February 1, 1979

50 0 50 MILES
SCALE 1 : 4,250,000



FORECAST STREAM FLOW
In Percent of 1963-77, 15 Year Average



WYOMING SUMMARY

as of
FEBRUARY 1, 1979

* * * * *
*
* Adequate water supplies are
* forecast for the spring and
* summer months in Wyoming.
* With above normal precipita-
* tion in many areas of the
* state, the snowpack is off
* to a good start for the
* season.
*
* * * * *

SNOWPACK

The mountain snowpack throughout most of the state is at or above the February 1 average. The snowpack in the upper portions of the North Platte is 24 percent above normal and 35 percent above normal in the Black Hills. The remainder of the state is generally 5 to 20 percent above normal. The only low area at this time is the Yellowstone drainage in the northwest corner of the state which is 14 percent below average.

PRECIPITATION

Seasonal precipitation amounts beginning October 1 have been well above normal in the east central and most of the western half of Wyoming. Largest departures from normal noted so far have been in the normally arid western valleys.

.....continued next page



Snow measuring equipment
...then and now

Most of the precipitation has occurred as snow where even in the lower elevations record cold temperatures have persisted for most of the past two months. Little in the way of melting has been occurring and the entire state is blanketed with a heavy snow cover.

STREAMFLOW

If the state receives normal amounts of precipitation during the next several months, the state should receive average to above average streamflow volumes during the spring and summer months. The lowest forecasts are for streams originating in the Wasatch Mountains of Utah and in the upper portions of the Snake and Yellowstone Rivers. The highest volumes in relation to normal are forecast for the Upper North Platte and Laramie watersheds and streams originating in the Black Hills.

RESERVOIR STORAGE

Carryover storage in Wyoming's irrigation reservoirs is good. The thirteen largest reservoirs currently contain 56 percent of their usable capacity. This is four percent above the February 1 average.

WATER SUPPLY OUTLOOK

FOR THE CONSERVATION DISTRICTS IN THE

SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
WATER RESOURCES DIVISION

FEBRUARY 1, 1979



LOCATION MAP



LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- + Aerial Marker (AI)
- Storage Precipitation Gage (PI)
- Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

0 10 20 MILES
SCALE 1:1,815,000



YOUR WATER SUPPLY

SNOWPACKS IN THIS REGION VARY FROM 83% OF AVERAGE IN NORTHERN YELLOWSTONE PARK TO 118% OF NORMAL IN THE HOBACK DRAINAGE. SNAKE RIVER INFLOW TO PALISADES IS FORECAST AT 89% OF NORMAL. GREYS RIVER IS EXPECTED TO BE HIGHER AT 97% OF NORMAL. JACKSON LAKE RESERVOIR STORAGE IS 93% OF NORMAL WHILE GRASSY LAKE AND PALISADES ARE ABOUT 120% OF THE USUAL FEBRUARY 1 FIGURE.

SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Yellowstone River at Yellowstone Lake Outlet	755	88	Apr-Sept	852	860
SNAKE River near Moran (1)	800	89	Apr-Sept	950	903p
SNAKE River above Palisades near Alpine (1)	2400	87	Apr-Sept	-	2755p
SNAKE River at Heise (2) (NWS)	3780	91	Apr-Sept	5028	4139
Pacific Creek at Moran	158	87	Apr-Sept	-	182
Greys River above Palisades	390	97	Apr-Sept	-	402p
Salt River above Palisades near Etna	370	91	Apr-Sept	-	405p
Palisades Reservoir Inflow	3420	89	Apr-Sept	4698	3863
Swift Creek near Afton	- Not Forecast -		May-Sept	-	-

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.
 NWS Forecast by National Weather Service p-Average includes provisional data for 1977

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Madison (Wyo. only)	2	67	83
Yellowstone (Wyo. only)	7	67	86
SNAKE ab Jackson Lake	8	70	95
Pacific Creek	2	79	111
Buffalo Creek	5	72	107
Gros Ventre River	3	76	102
Hoback River	7	81	118
Greys River	4	58	102
Salt River	4	69	110

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Grassy Lake	15.1	12.5	8.5	10.4
Jackson Lake	847.0	570.9	307.4	612.5
Palisades	1200.0	1130.0	263.2	907.8

† 1963-1977 period.

UNITED STATES DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
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 CASPER, WYOMING 82601

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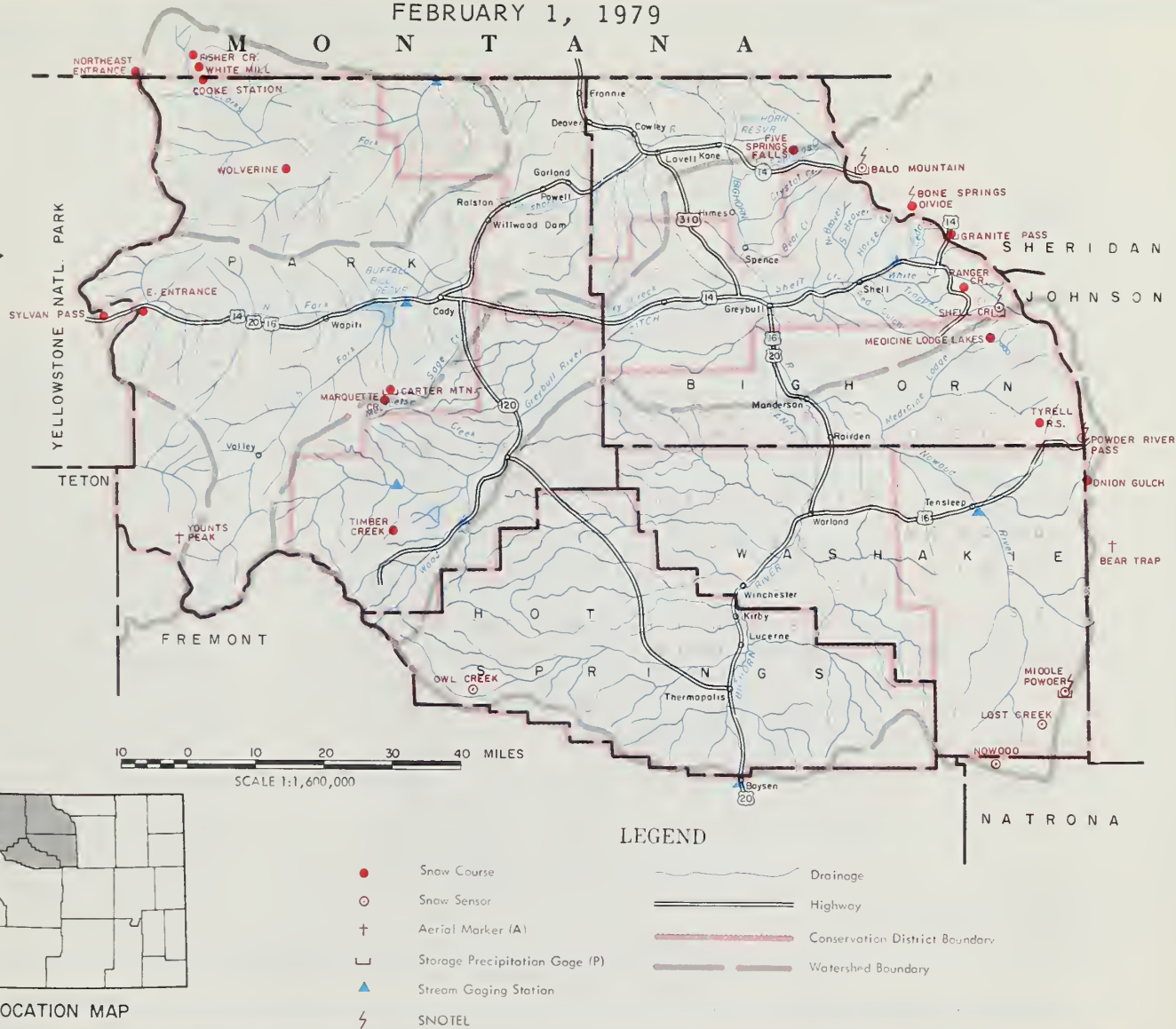
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BIGHORN BASIN IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
NATIONAL WATER RESOURCES INSTITUTE

FEBRUARY 1, 1979



YOUR WATER SUPPLY

SUMMER STREAMFLOW ON THE GREYBULL RIVER IS EXPECTED TO BE 106% OF NORMAL WHILE THE CLARKS FORK IS FORECAST LOWEST AT 84% OF NORMAL. ALL MOUNTAIN SNOWPACKS ARE ABOVE NORMAL. RESERVOIR STORAGE IS NEAR TO ABOVE NORMAL.

BIGHORN BASIN

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Wind River below Boysen (1) (NWS)	1240	104	Apr-Sept	1332	1193
Tensleep Creek near Tensleep	80	91	Apr-Sept	-	88*
Medicine Lodge Creek near Hyattville	22	96	Apr-Sept	-	23*
Shell Creek near Shell	75	95	Apr-Sept	97	79
Greybull River at Meeteetse	240	106	Apr-Sept	222	226
Shoshone River below Buffalo Bill Dam (2)	880	102	Apr-Sept	1037	864
Clarks Fork near Belfry	511	84	Apr-Sept	-	608

(1) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Heart Mountain Canal.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

NWS Forecast by National Weather Service

† Less than 15 years in average

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Clarks Fork	1	102	142
Shoshone	3	73	101
Nowood	5	80	109
Shell	4	82	105
Greybull	1	182	125

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (in.)	Water Cont (in.)	Water Content (inches) Last Yr.	Ave. †
Bald Mountain	2/02	49	14.2	19.6	15.1
Bear Trap Aerial	2/01	29	6.7	8.8	6.6
Bone Spring Divide	2/02	47	12.6	14.6	12.8
Carter Mountain	1/30	20	4.0	2.2	3.2
Cooke Station	2/01	EST	11.0	21.4	13.9
East Entrance	2/03	37	9.0	12.2	7.6
Fisher Creek	2/01	EST	19.5	32.8	28.0
Five Springs Falls	1/30	21	2.2	7.6	5.7
Marquette Creek	1/30	26	5.0	2.6	-
Medicine Lodge Lakes	2/01	36	9.0	12.3	7.6
Middle Powder	1/28	25	5.4	5.9	7.0
Northeast Entrance	2/02	30	7.7	10.6	7.4
Onion Gulch	2/01	28	6.9	8.9	6.1
Owl Creek	1/30	20	3.0	2.1	3.3
Powder River Pass	2/01	37	9.5	11.4	8.3
Ranger Creek	2/01	33	8.2	8.9	7.1
Shell Creek	2/01	44	12.0	14.5	9.9
Sylvan Pass	2/03	37	8.0	14.4	10.0
Timber Creek	D e l a y e d			0.9	2.2
Tyrell Ranger Station	2/01	29	7.0	8.6	5.8
White Mill	2/01	EST	16.0	25.6	21.2
Wolverine	1/30	43	13.2	13.0	9.3

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Boysen	549.9	331.3	295.8	348.0
Buffalo Bill	373.1	187.5	152.0	188.6
Bighorn	613.7	909.5	899.4	792.5*
Upper Sunshine	53.0	- No Report -	-	-
Lower Sunshine	58.9	- No Report -	-	-

*Average for 1958-72 period

+ 1963-1977 period

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SOIL CONSERVATION SERVICE
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Worland, Wyoming 82401

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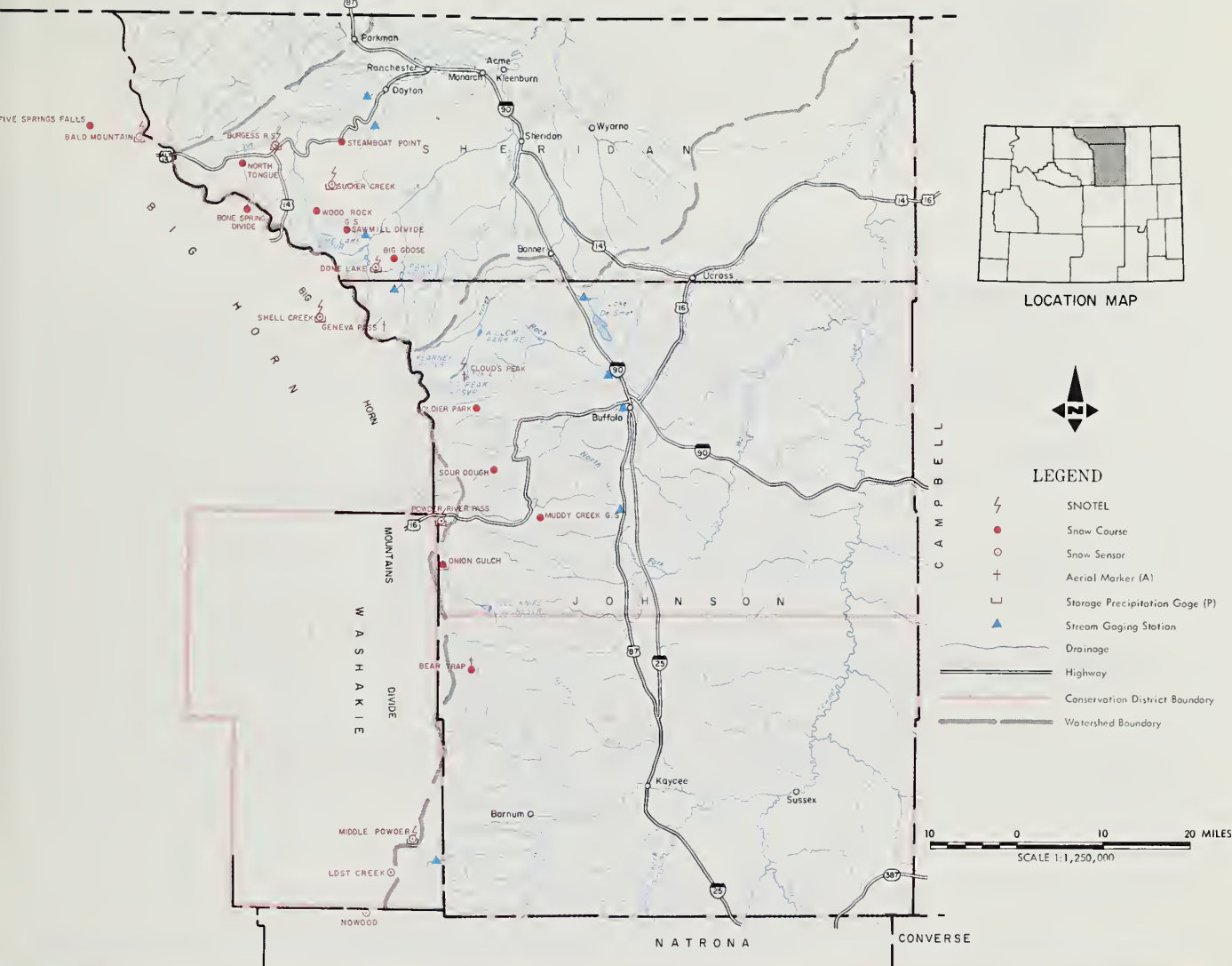
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M O N T A N A



FEBRUARY 1 OBSERVATIONS REPORT SNOWPACKS RANGING FROM 1% BELOW NORMAL FOR THE TONGUE RIVER TO 14% ABOVE NORMAL FOR THE CRAZY WOMAN CREEK DRAINAGE. NEAR TO ABOVE AVERAGE RUNOFF IS EXPECTED THIS SUMMER WITH CLEAR CREEK BEING HIGHEST AT 15% ABOVE NORMAL.

POWDER AND TONGUE RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Tongue River near Dayton	125	97	Apr-Sept	174	129
Middle Fork Powder River near Barnum	21	95	Apr-Sept	33	22
North Fork Powder River near Hazelton	11.1	104	Apr-Sept	17.8	10.7
Clear Creek near Buffalo	45	115	Apr-Sept	67	39
Rock Creek near Buffalo	27	104	Apr-Sept	34	26
Piney Creek at Kearny	58	102	Apr-Sept	109	57

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.
 † Less than 15 years of record.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Tongue River	4	92	99
Goose Creek	4	96	112
Clear Creek	4	81	114
Crazy Woman Creek	2	81	114
Powder River	4	81	102

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches) Last Yr.	Ave †
Bald Mountain	2/02	49	14.2	19.6	15.1
Bear Trap Aerial	2/01	30	6.7	8.8	6.6
Big Goose	2/01	24	5.1	4.6	4.6
Bone Spring Divide	2/02	47	12.6	14.6	12.8
Burgess Ranger Station	2/02	25	5.7	5.4	5.4
Cloud Peak Aerial	2/01	23	5.5	6.0	6.5
Dome Lake	2/01	29	7.1	6.9	6.5
Five Springs Falls	1/30	21	2.2	7.6	5.7
Geneva Pass Aerial	2/01	40	12.0	11.7	11.4
Middle Powder	1/28	25	5.4	5.9	7.0
Muddy Creek G.S.	2/01	19	4.2	3.1	2.5
North Tongue	2/02	36	9.3	9.6	9.1
Onion Gulch	2/01	28	6.9	8.9	6.1
Powder River Pass	2/01	37	9.5	11.4	8.3
Sawmill Divide	2/01	33	7.9	9.3	-
Shell Creek	2/01	44	12.0	14.5	9.9
Soldier Park	2/01	20	4.8	4.9	3.9
Sour Dough	2/01	26	5.9	4.7	4.3
Steamboat Point	2/02	24	6.1	6.2	5.3
Sucker Creek	2/02	30	7.4	8.6	8.1
Woodrock G.S.	2/01	27	6.2	N.R.	7.1

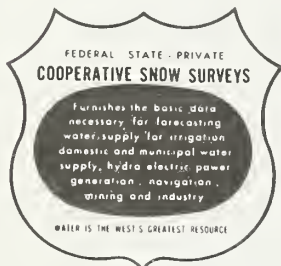
A - Aerial stadia marker. Water content estimated. † 1963-1977 period

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
- No Reservoir Data -				

UNITED STATES DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
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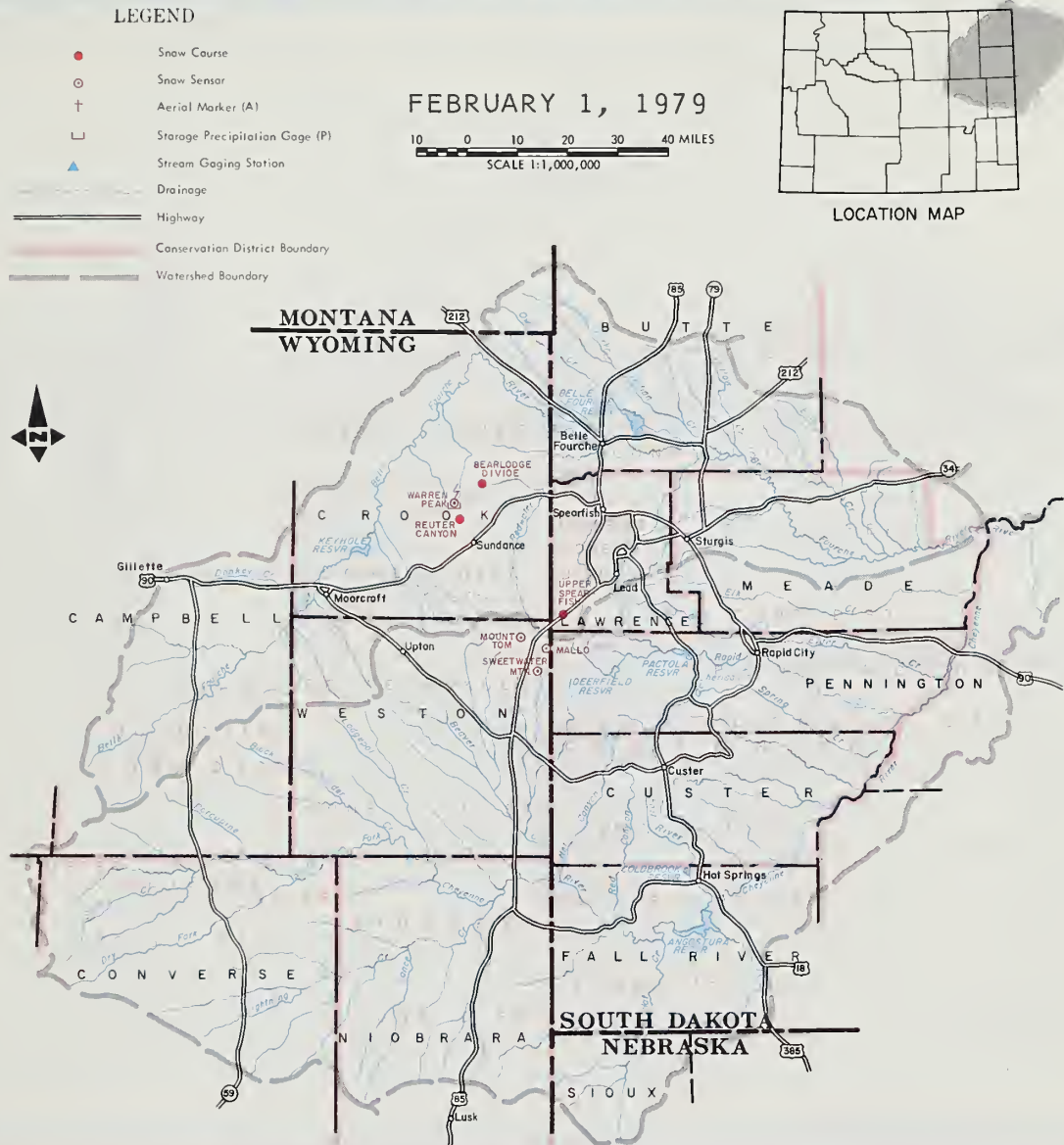


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WATER SUPPLY OUTLOOK

FOR THE CONSERVATION DISTRICTS IN THE BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS IN WYOMING AND SOUTH DAKOTA



YOUR WATER SUPPLY

SNOWPACKS IN THIS REGION ARE 35% ABOVE AVERAGE. SUMMER STREAMFLOWS ARE EXPECTED TO ALSO BE ABOVE NORMAL. RESERVOIR STORAGE IS GOOD TO EXCELLENT (6 TO 30% ABOVE NORMAL).

BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year Average †
- No forecasts for this area -				

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Belle Fourche	3	130	135

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches) Last Yr.	Ave. †
Bearlodge Divide	1/31	16	2.9	3.4	2.1
Mallo Pillow	1/28	-	6.4	4.6	-
Mount Tom Pillow	1/30	-	4.3	-	-
Reuter Canyon	1/30	36	9.4	6.4	6.4
Sweetwater Mtn. Pillow	1/27	-	4.8	-	-
Upper Spearfish	1/29	26	5.2	3.7	4.6
Warren Peak	1/30	30	7.6	5.5	6.2

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Keyhole	190.4	147.6	102.8	117.0
Belle Fourche	185.2	123.0	85.7	112.9
Angostura	86.2	79.3	26.8	60.9
Deerfield	15.1	15.0	15.2	13.7
Pactola	55.0	53.3	48.2	49.8
Shadehill	81.5	54.5	61.6	48.3

+ 1963-1977 period

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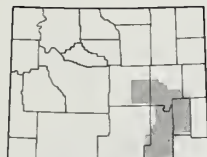
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WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER NORTH PLATTE RIVER WATERSHED IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE - THE CONSERVATION SERVICE
OFFICE OF THE DISTRICT ENGINEER

FEBRUARY 1, 1979

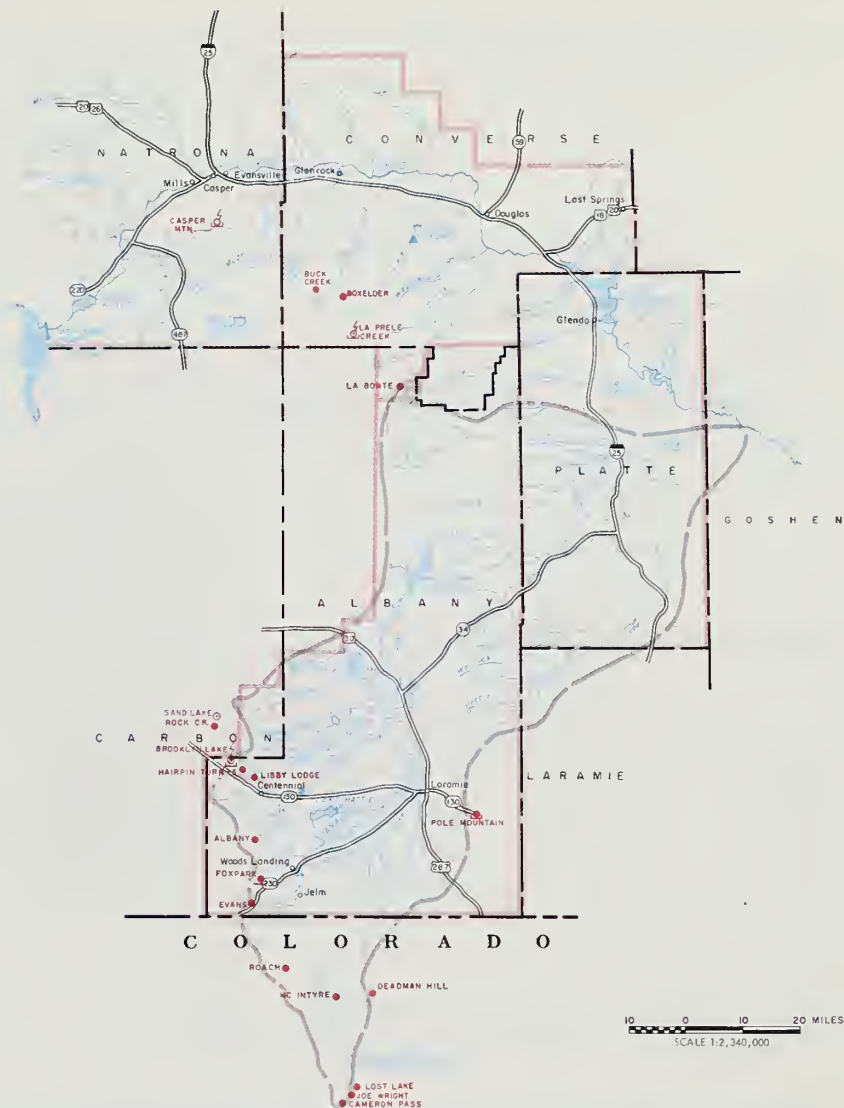


LOCATION MAP



LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- Storage Precipitation Gage (P)
- Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary



YOUR WATER SUPPLY

THE LITTLE LARAMIE IS FORECAST TO FLOW AT 39% ABOVE NORMAL THIS SUMMER DUE TO A VERY HEAVY SNOWPACK (57% ABOVE NORMAL). OTHER STREAMFLOWS RANGE FROM NEAR NORMAL TO 22% BELOW NORMAL FOR DEER CREEK. ONLY THE DEER AND LAPRELE CREEK SNOWPACKS ARE BELOW NORMAL. NEAR AVERAGE VOLUMES ARE PRESENTLY STORED IN THE NORTH PLATTE RESERVOIR SYSTEM.

LOWER NORTH PLATTE RIVER WATERSHED

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
North Platte River near Sinclair	810	119	Apr-Sept	876	680
Deer Creek at Glenrock	39	78	Mar-July	-	50
LaPrele Creek near Douglas (Ab. Reservoir)	26	84	Mar-July	23	31
Laramie River & Pioneer Canal near Woods (1)	140	112	Apr-Sept	149	125
Little Laramie River near Filmore	86	139	Apr-Sept	89	62

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Laramie River	13	92	140
Lower North Platte	4	109	98

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave †
Albany	1/29	49	14.8	15.7	10.5
Boxelder	1/30	20	3.8	5.1	4.1
Brooklyn Lake	1/29	63	20.9	23.0	14.0
Buck Creek	1/30	24	5.2	5.4	7.0
Cameron Pass	1/28	56	18.2	23.9	17.8
Casper Mountain	2/01	29	6.8	6.2	9.1
Deadman Hill	1/28	43	12.2	12.2	9.9
Evans	1/26	37	9.5	12.6	6.8
Foxpark	1/29	28	7.2	9.8	4.0
Hairpin Turn	1/29	56	17.4	19.2	11.0
Joe Wright	1/28	55	16.6	21.0	15.3
LaBonte	1/27	29	7.4	4.5	3.4
Libby Lodge	1/29	45	14.4	13.1	7.5
Lost Lake	1/28	39	10.8	11.9	7.5
Pole Mountain	1/29	25	6.1	3.5	4.3
Roach	1/28	55	15.8	15.5	11.5
Rock Creek	1/29	EST	17.5	21.3	15.7

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1010.5	501.7	368.5	451.6
Pathfinder	1015.9	607.4	382.3	540.8
Alcova	30.7	3.3	4.0	-0.6
Glendo	783.7	319.7	327.1	333.1
Guernsey	45.2	7.4	14.5	7.2
Wheatland #2	98.9	41.7	14.0	42.6

PROJECT WATER OWNERSHIP

North Platte Project	1016.1	674.5	210.3
Kendrick Project	1201.6	678.7	800.2
Glendo Project Users	454.3	128.9	108.8

+ 1963-1977 period.

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"The Conservation of Water begins with the Snow Survey"

FEBRUARY 1, 1979



ABOUT 20% ABOVE NORMAL STREAMFLOWS ARE FORECAST FOR SPRING AND SUMMER IN THESE BASINS. THE SNOW CONDITIONS ARE EXCELLENT AT THIS TIME HAVING 20 TO 24% ABOVE AVERAGE AMOUNTS. SEMINOE RESERVOIR STORAGE VOLUME IS 11% ABOVE THE AVERAGE FEBRUARY 1 FIGURE.

UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS STREAMFLOW FORECASTS

STREAMFLOW FORECASTS			THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET		
	Thousand Acre Feet	Percent of Average		Last Year **	Average †	
North Platte River near Northgate	300	126	Apr-Sept	328	238	
North Platte River near Sinclair	810	119	Apr-Sept	876	680	
Encampment River near Encampment	180	118	Apr-Sept	204	152	
Rock Creek near Arlington	69	121	Apr-Sept	77	57	
Little Snake near Dixon	380	119	Apr-Sept	389	320p	
Little Snake near Slater, Colo.	175	114	Apr-Sept	212	154p	

** Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

p Provisional data used for 1977 in 15 year average

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper North Platte	15	88	124
Medicine Bow River and Rock Creek	4	83	120
Little Snake	2	91	122

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1010.5	501.7	368.5	451.6

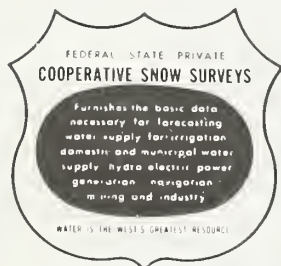
SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches) Last Yr.	Ave. †
Albany	1/29	49	14.8	15.7	10.5
Battle Mountain	1/31	37	9.2	9.9	-
Brooklyn Lake	1/29	63	20.9	23.0	14.0
Butter Hill	2/01	45	12.0	12.5	-
Cameron Pass	1/28	56	18.2	23.9	17.8
Deep Creek	1/31	48	13.1	13.1	-
Deep Lake	1/29	EST	30.0	36.7	26.4
Elkhorn	1/31	EST	21.0	23.8	-
Elk River	1/25	55	14.6	17.9	11.6
Evans	1/26	37	9.5	12.6	6.8
Foxpark	1/29	28	7.2	9.8	4.0
Hairpin Turn	1/29	56	17.4	19.2	11.0
Haskins Creek	1/31	EST	24.0	28.5	-
LaBonte	1/27	29	7.4	4.5	3.4
Libby Lodge	1/29	45	14.4	13.1	7.5
Moss Lake	1/29	EST	18.0	23.6	16.1
North Barrett Creek	1/30	52	16.0	14.9	13.6
North French Creek Pillow	1/31	-	17.4	20.0	14.8
Old Battle	1/31	EST	26.4	27.2	22.0
Purgatory Gulch	- No Report	-	-	7.5	7.3
Rock Creek	1/29	EST	17.5	21.3	15.7
Ryan Park	1/30	34	8.6	9.0	7.6
Sandstone R.S.	1/31	48	13.8	14.3	-
Webber Spring	1/31	EST	18.0	21.2	14.5
Whiskey Creek	1/31	EST	25.0	28.3	-

+ 1963-1977 period

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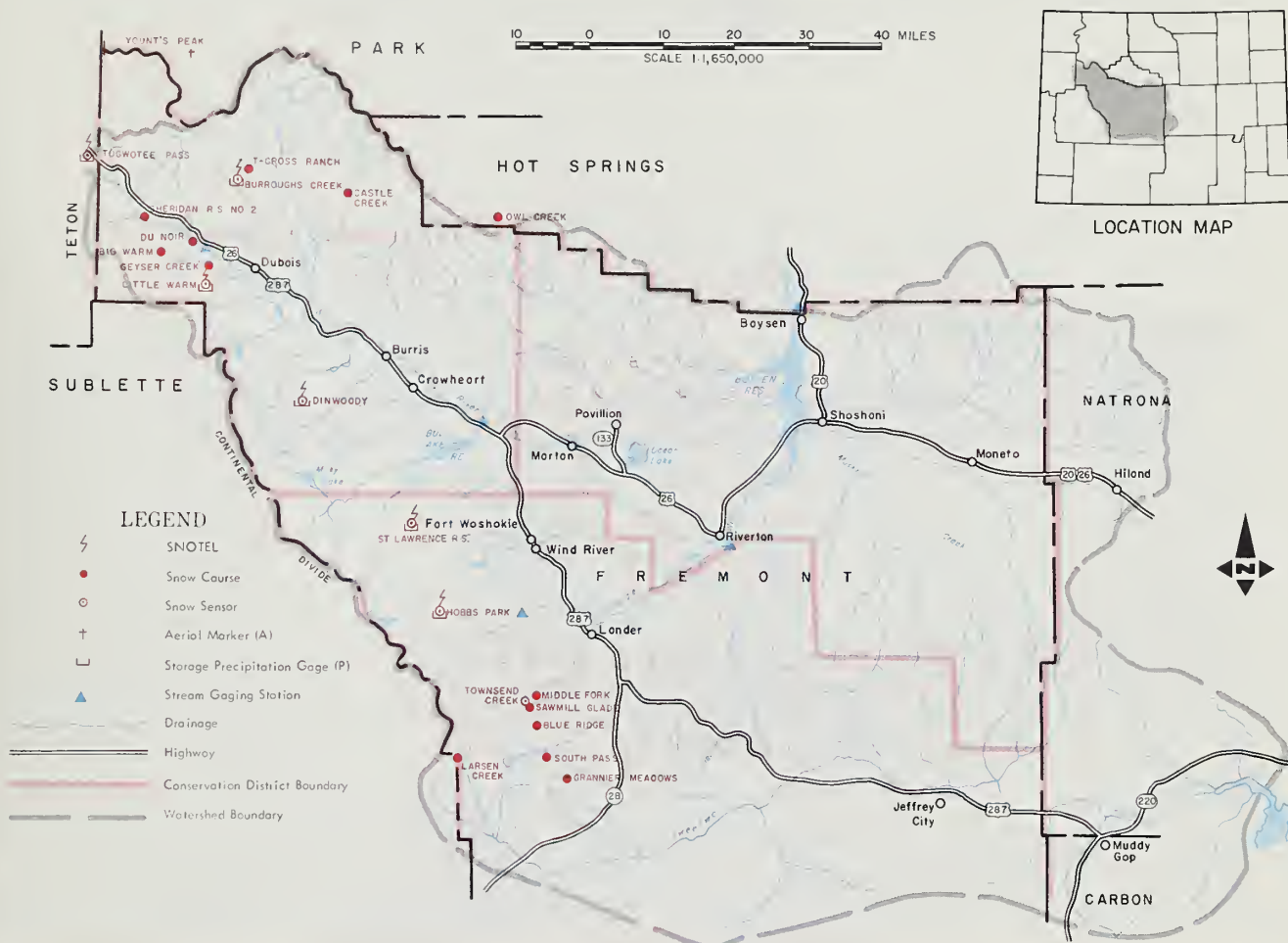
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
WATER SUPPLY OUTLOOK

FEBRUARY 1, 1979



YOUR WATER SUPPLY

THE FEBRUARY 1 OUTLOOK FOR SPRING AND SUMMER IS FOR NORMAL TO A LITTLE ABOVE NORMAL STREAMFLOWS. MOUNTAIN SNOWPACKS RANGE FROM 12 TO 22% ABOVE NORMAL. RESERVOIR STORAGE IN THIS WATERSHED IS HIGH AT PILOT BUTTE (28% ABOVE NORMAL) AND LOW AT BOYSEN WITH 5% BELOW NORMAL.

WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Wind River near Dubois	112	102	Apr-Sept	-	110
Wind River at Riverton (1)	730	105	Apr-Sept	780	695
Wind River below Boysen (2) (NWS)	1240	104	Apr-Sept	1332	1193
Bull Lake Creek near Lenore (3)	190	100	Apr-Sept	-	189
Little Popo Agie near Lander	53	100	Apr-Sept	53	53

(1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.
 (2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.
 (3) Observed flow plus change in storage in Bull Lake

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.
 NWS Forecast by National Weather Service

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Wind River	9	80	120
Popo Agie	5	127	112
Sweetwater	3	104	122
Wind River ab. Boysen	15	94	118

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Bull Lake	151.8	106.4	79.4	93.3
Pilot Butte	31.6	18.8	5.9	14.7
Boysen	549.9	331.3	295.8	348.0

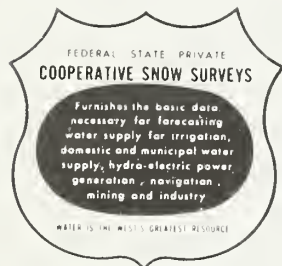
SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Last Yr.	Ave. †
Big Warm Springs	1/30	25	5.5	6.4	4.6
Blue Ridge	1/31	38	9.6	7.6	8.4
Burroughs Creek	1/31	42	12.0	17.7	9.7
Castle Creek	1/29	23	4.5	5.6	-
Dinwoody	1/30	38	9.1	8.7	7.8
DuNoir	1/30	36	8.8	8.3	5.9
Geyser Creek	1/30	31	7.8	7.5	5.1
Grannier Meadows	1/31	46	12.8	10.8	9.6
Hobbs Park	1/30	35	8.5	8.8	9.4
Larsen Creek	1/30	40	9.8	12.8	9.2
Little Warm	1/30	43	11.6	16.2	10.6
Middle Fork	1/31	27	6.1	2.8	3.9
Owl Creek	1/30	20	3.0	2.1	3.3
Sawmill Glade	1/31	25	7.4	4.4	6.0
Sheridan Ranger Station	2/01	33	8.3	7.0	5.2
South Pass	1/31	47	12.7	10.3	10.1
St. Lawrence R.S.	1/30	26	5.2	3.0	4.7
T-Cross Ranch	1/31	33	8.3	9.0	4.9
Togwotee Pass	1/31	62	19.0	29.3	0.1
Younts Peak Aerial	- Delayed -	-	-	-	3.8

+ 1963-1977 period

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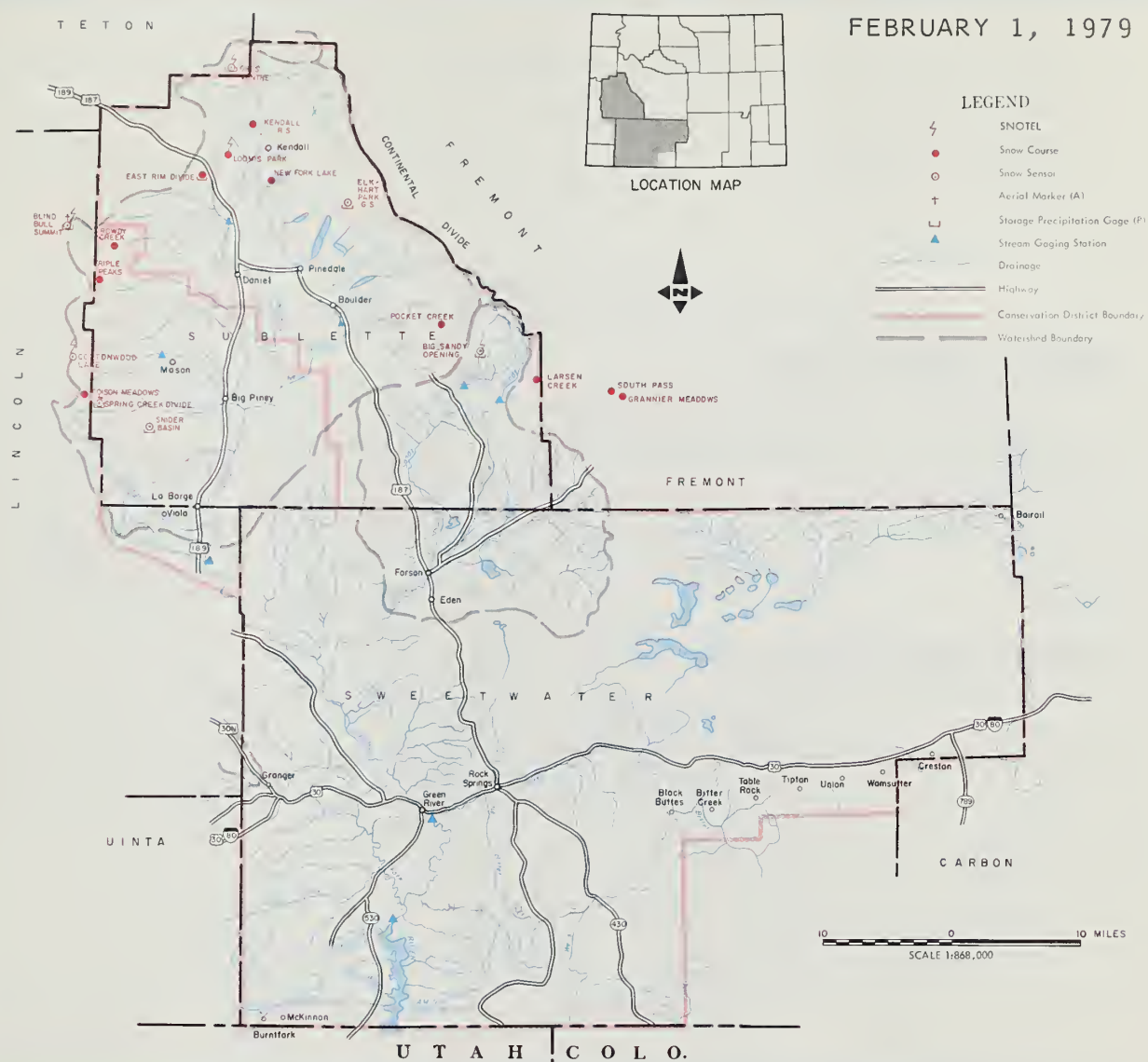
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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER GREEN RIVER BASIN IN WYOMING



YOUR WATER SUPPLY

POTENTIAL SPRING AND SUMMER STREAMFLOWS ARE NEAR NORMAL ON THE GREEN RIVER WITH 10% ABOVE NORMAL EXPECTED FROM THE BIG SANDY RIVER. SNOWPACKS VARY FROM 1% ABOVE NORMAL ON THE WEST SIDE TO 17% ABOVE NORMAL ON THE BIG SANDY. BIG SANDY RESERVOIR IS STORING 31% ABOVE NORMAL VOLUME WHILE OTHER RESERVOIRS ARE NEAR NORMAL.

UPPER GREEN RIVER BASIN IN WYOMING

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Green River at Warren Bridge	340	101	Apr-Sept	359	336p
Green River near LaBarge	930	93	Apr-Sept	1242	999p
Green River near Green River (1)	1000	91	Apr-Sept	1291	1094p
Flaming Gorge Inflow (NWS)	1300	101	Apr-July	1470	1292
LaBarge Creek at LaBarge Meadows	9.4	107	Apr-Sept	11.6	8.8p
Big Sandy River near Big Sandy	69	110	Apr-Sept	75	63p

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

NWS Forecast by National Weather Service p - Average includes provisional data for 1977

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Green, East Side	8	79	112
Upper Green, West Side	5	62	101
Big Sandy	2	92	117

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches) Last Yr.	Ave†
Big Sandy Opening	1/30	48	11.8	12.5	9.6
Blind Bull Summit Aerial	1/30	60	18.0	31.8	18.9
East Rim Divide	1/31	41	10.8	13.4	9.4
Elkhart Park G.S.	1/30	42	9.9	13.2	9.3
Grannier Meadows	1/31	46	12.8	10.8	9.6
Gros Ventre Summit	1/29	35	8.2	9.0	8.6
Kendall Ranger Station	1/29	42	10.7	13.8	9.2
Larsen Creek	1/30	40	9.8	12.8	9.2
Loomis Park	1/31	51	14.1	20.6	12.8
New Fork Lake	1/29	40	9.8	13.5	8.1
Pocket Creek	1/30	43	9.2	10.4	8.4
Poison Meadows	1/29	68	19.2	33.1	20.1
Rowdy Creek	1/28	53	15.6	25.4	15.8
Snider Basin R. S.	1/29	45	13.4	20.2	11.7
South Pass	1/31	47	12.7	10.3	10.1
Spring Creek Divide Pillow	1/29	-	14.7	23.2	-
Triple Peaks	1/28	57	17.6	32.0	18.7

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Eden	11.8	N.R.	2.4	3.1*
Big Sandy	38.3	24.7	8.9	18.8
Fontenelle	344.8	255.1	251.6	273.3
Flaming Gorge	3749.0	2595.4	1987.5	-

*Less than 15 years

+ 1963-1977 period

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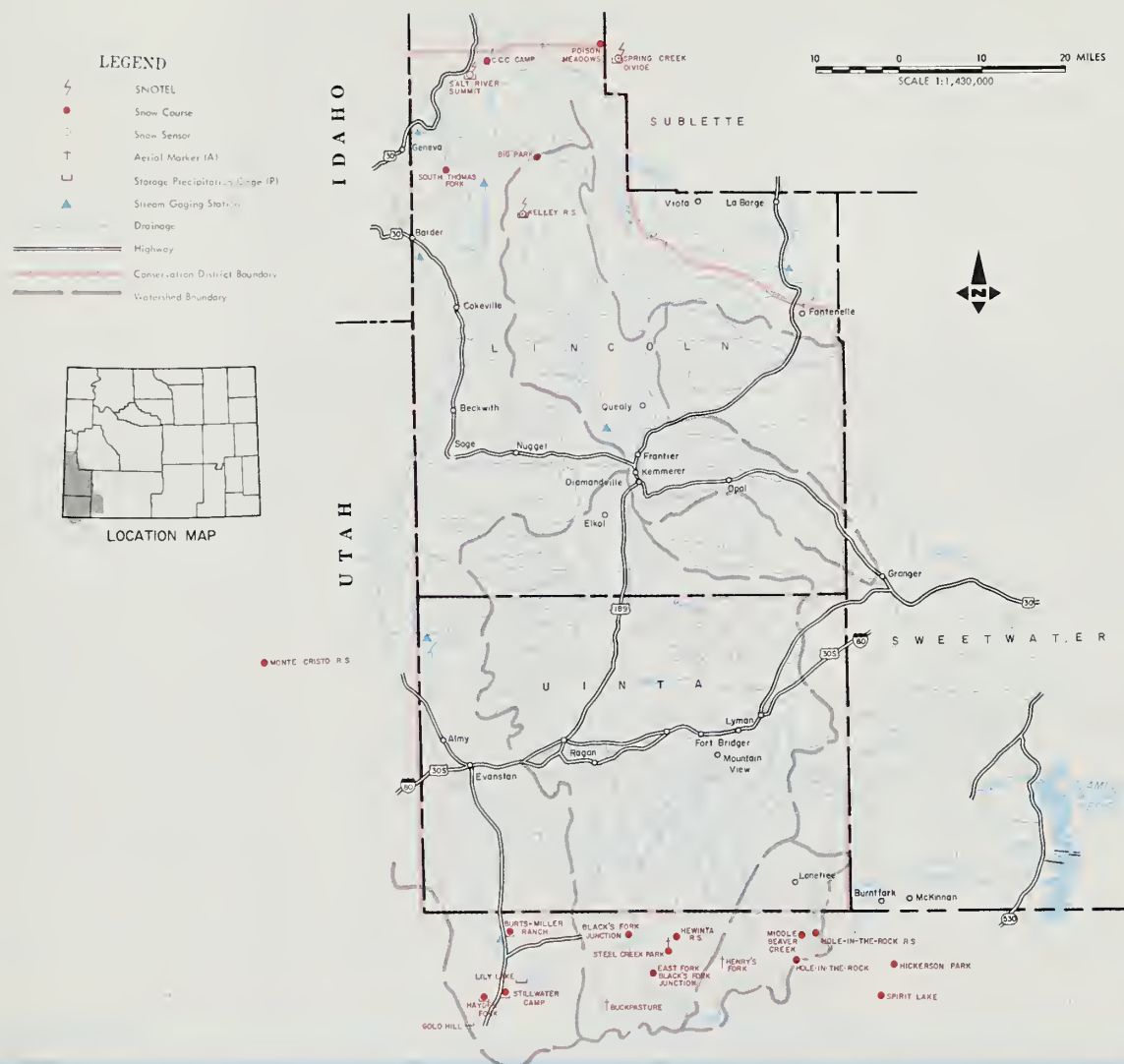


FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS IN WYOMING

FEBRUARY 1, 1979



YOUR WATER SUPPLY

SNOWPACKS ARE SLIGHTLY ABOVE AVERAGE THROUGHOUT THIS WATERSHED. MOST STREAMFLOWS THIS SUMMER WILL BE NEAR NORMAL WITH LA BARGE CREEK BEING HIGHEST AT 7% ABOVE NORMAL AND THE BEAR RIVER LOWEST AT 18% BELOW NORMAL. STORAGE IN VIVA NAUGHTON RESERVOIR IS ABOVE NORMAL.

LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
LaBarge Creek at LaBarge Meadows	9.4	107	Apr-Sept	11.6	8.8p
Green River near Green River (1)	1000	91	Apr-Sept	1291	1094p
Hams Fork below Pole Creek, near Frontier	66	92	Apr-Sept	96	72
Blacks Fork near Millburne	80	87	Apr-July	-	92
Flaming Gorge Inflow (NWS)	1300	101	Apr-July	1470	1292
Smiths Fork near Border	125	104	Apr-Sept	160	120p
Thomas Fork near State Line	36	102	Apr-Sept	54	35p
Bear River at Utah-Wyoming State Line	93	82	Apr-July	115	114

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

NWS Forecast by National Weather Service p - Average includes provisional data for 1977

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Bear River	1	88	104
Smiths & Thomas Forks	4	66	103

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave.†
Big Park	1/29	47	13.6	20.4	13.3
Blacks Fork GS-East Fk.	1/30	25	6.4	7.2	-
Blacks Fork Junction	1/30	29	6.9	6.6	-
Burts-Miller Ranch	1/30	20	4.5	4.5	-
CCC Camp	1/30	38	9.6	14.6	8.6
Hayden Fork	1/30	36	9.2	12.4	-
Hewinta Guard Station	1/30	27	6.3	6.5	-
Hickerson Park	1/30	25	5.0	3.4	-
Kelley R.S.	1/29	50	13.0	19.0	11.9
Poison Meadows	1/29	68	19.2	33.1	20.1
Salt River Summit	1/30	46	12.2	18.0	11.0
South Thomas Fork	1/29	41	10.8	17.2	11.8
Spirit Lake	1/30	39	9.8	4.1	-
Stillwater Camp	1/30	33	7.8	8.0	-
Trial Lake	2/03	61	16.8	21.1	15.6

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Fontenelle	344.8	255.1	251.6	273.7*
Flaming Gorge	3749.0	2595.4	1987.5	-
Viva Naughton	42.4	34.5	20.8	-

*Less than 15 years

+ 1963-1977 period

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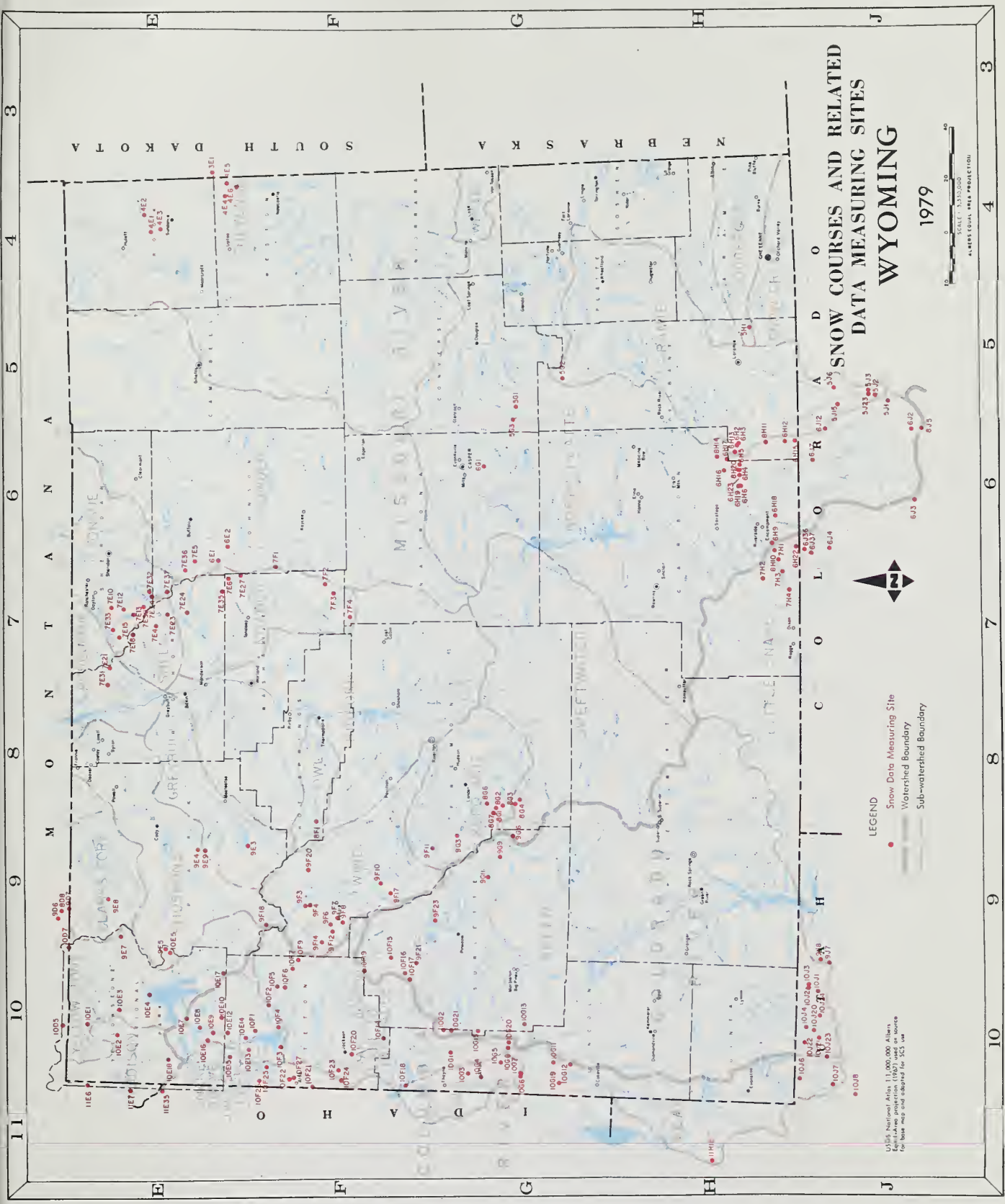
BASIC DATA SUPPLEMENT 1

		THIS YEAR			PAST RECORD				THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)		DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)			
				Last Yr.	Ave. †					Last Yr.	Ave. †		
Afton Ranger Station	1/30	22	4.2	4.2	3.4	Geyser Creek	1/30	31	7.8	7.5	5.1		
Albany	1/29	49	14.8	15.7	10.5*	Glade Creek	1/29	59	17.7	22.5	15.8		
Arizona	1/30	48	13.4	18.3	13.3	Grannier Meadows	1/31	46	12.8	10.8	9.6		
Arrastre Lake Pillow	1/31	-	16.7	N.R.	-	Grassy Lake	1/29	82	24.9	30.8	24.8		
Aster Creek	1/29	59	17.7	26.6	21.4	Greys Boundary	1/30	44	10.2	14.4	7.9		
Bald Mountain	2/02	49	14.2	19.6	15.1	Gros Ventre Summit	1/29	35	8.2	9.0	8.6		
Base Camp	1/30	52	15.3	22.0	14.9	Gros Ventre Summit Pillow	1/29	-	10.0	10.3	-		
Battle Mountain	1/31	37	9.2	9.9	-	Grover Park Divide	1/30	35	8.4	13.4	8.4		
Bearlodge Divide	1/31	16	2.9	3.4	2.1*	Hairpin Turn	1/29	56	17.4	19.2	11.0		
Bear Trap Aerial	2/02	29	6.7	8.8	6.6	Haskins Creek	1/31	EST	24.0	28.5	-		
Big Goose	2/01	24	5.1	4.6	4.6	Hayden Fork	1/30	36	9.2	12.4	-		
Big Park	1/29	47	13.6	20.4	13.3	Hewinta Guard Station	1/30	27	6.3	6.5	-		
Big Sandy Opening	1/30	48	11.8	12.5	9.6	Hickerson Park	1/30	25	5.0	3.4	-		
Big Sandy Opening Pillow	1/30	-	12.2	10.7	-	Hobbs Park	1/30	35	8.5	8.8	9.4		
Big Warm Springs	1/30	25	5.5	6.4	4.6	Hobbs Park Pillow	1/30	-	9.8	-	-		
Blackrock	1/31	50	14.6	21.8	14.8	Huckleberry Divide	1/30	57	16.2	21.3	15.0		
Blacks Fork GS-East Fk	1/30	25	6.4	7.2	-	Indian Meadows	1/29	76	21.6	32.6	-		
Blacks Fork Junction	1/30	29	6.9	6.6	-	Jackpine Creek	1/29	52	14.2	19.2	14.9e		
Blind Bull Summit Aerial	1/30	60	18.0	31.8	18.9	Joe Wright	1/28	55	16.6	21.0	15.3		
Blue Ridge	1/31	38	9.6	7.6	8.4	Kelley Ranger Station	1/29	50	13.0	19.0	11.9		
Bone Spring Divide	2/02	47	12.6	14.6	12.8	Kelley R.S. Pillow	1/29	-	11.4	-	-		
Boxelder	1/30	20	3.8	5.1	4.1	Kendall Ranger Station	1/29	42	10.7	13.8	9.2		
Brooklyn Lake	1/29	63	20.9	23.0	14.0	LaBonte	1/27	29	7.4	4.5	3.4		
Brooklyn Lake Pillow	1/29	-	15.8	N.R.	-	Lake Camp	2/02	32	6.9	9.5	6.4*		
Bryan Flat	1/30	38	9.2	8.4	6.4	Larsen Creek	1/30	40	9.8	12.8	9.2*		
Buck Creek	1/30	24	5.2	5.4	7.0*	Lewis Lake Divide	1/29	77	24.3	43.3	28.6		
Burgess Ranger Station	2/02	25	5.7	5.4	5.4	Lewis Lake Divide Pillow	1/31	-	19.5	35.7	-		
Burroughs Creek	1/31	42	12.0	17.7	9.7	Libby Lodge	1/29	45	14.4	13.1	7.5		
Burroughs Creek Pillow	1/31	-	10.7	N.R.	-	Little Warm	1/30	43	11.6	16.2	10.6		
Burts-Miller Ranch	1/30	20	4.5	4.5	-	Little Warm Pillow	1/31	-	8.3	-	-		
Butter Hill	2/01	45	12.0	12.5	-	Loomis Park	1/31	51	14.1	20.6	12.8		
Cameron Pass	1/28	56	18.2	23.9	17.8	Lost Lake	1/28	39	10.8	11.9	7.5		
Canyon	1/31	44	10.6	15.1	11.4*	Lupine Creek	1/30	29	5.6	8.8	7.9*		
Canyon Pillow	- Delayed	-	-	12.8	-	Mallo Pillow	1/28	-	6.4	4.6	-		
Carter Mountain	1/30	20	4.0	2.2	3.2	Marquette Creek	1/30	26	5.0	2.6	-		
Casper Mountain	2/01	29	6.8	6.2	9.1	Medicine Lodge Lakes	2/01	36	9.0	12.3	7.6*		
Casper Mountain Pillow	2/01	-	5.3	5.5	-	Middle Fork	1/31	27	6.1	2.8	3.9*		
Castle Creek	1/29	23	4.5	5.6	-	Middle Powder	1/28	25	5.4	5.9	7.0		
CCC Camp	1/30	38	9.6	14.6	8.6	Middle Powder Pillow	1/28	-	5.6	5.8	-		
Chambers Lake	1/28	32	9.3	10.9	5.9	Miles Creek	1/29	36	8.9	10.8	8.7e		
Cloud Peak Aerial	2/01	23	5.5	6.0	6.5	Monte Cristo	1/30	55	16.9	19.3	16.3		
Columbine Lodge	1/26	67	19.4	26.5	14.5	Moran	1/30	45	12.1	12.8	9.7		
Cooke Station	2/01	EST	11.0	21.4	13.9	Moran Bay	1/30	63	17.7	N.R.	15.7*		
Cottonwood Lake Aerial	1/30	46	12.0	23.0	11.8	Moss Lake	1/29	EST	18.0	23.6	16.1*		
Coulter Creek	1/29	59	12.1	4.5	-	Mount Tom Pillow	1/30	-	4.3	N.R.	-		
Darby Canyon	1/29	52	14.2	17.6	15.4e	Muddy Creek Guard Station	2/01	19	4.2	3.1	2.5*		
Deadman Hill	1/29	43	12.2	12.2	9.9	New Fork Lake	1/29	40	9.8	13.5	8.1		
Deep Creek	1/31	48	13.1	13.1	-	Norris Basin	1/30	32	6.0	9.6	8.6		
Deep Lake	1/29	EST	30.0	36.7	26.4*	North Barrett Creek	1/30	52	16.0	14.9	13.6*		
Dinwoody	1/30	38	9.1	8.7	7.8	Northeast Entrance	2/02	30	7.7	10.6	7.4		
Dinwoody Pillow	1/30	-	7.6	N.R.	-	Northeast Entrance Pillow	2/02	-	7.2	8.6	7.2*		
Dome Lake	2/01	29	7.1	6.9	6.5	North French Creek Pillow	1/31	-	17.4	20.0	14.8*		
DuNoir	1/30	36	8.8	8.3	5.9	Northgate	1/26	20	4.0	4.2	4.0		
East Entrance	2/03	37	9.0	12.2	7.6	North Tongue	2/02	36	9.3	9.6	9.1		
East Rim Divide	1/31	41	10.8	13.4	9.4*	Old Battle	1/31	EST	26.4	27.2	22.0		
Elbo Ranch	1/31	41	10.6	10.8	-	Old Battle Pillow	1/31	-	28.8	32.1	-		
Elkhart Park G.S.	1/30	42	9.9	13.2	9.3	Old Faithful	2/01	39	10.6	14.1	-		
Elkhorn	1/31	EST	21.0	23.8	-	Onion Gulch	2/01	28	6.9	8.9	6.1*		
Elk River	1/25	55	14.6	17.9	11.6	Owl Creek	1/30	20	3.0	2.1	3.3		
Evans	1/26	37	9.5	12.6	6.8	Parkers Peak Aerial	- Delayed	-	-	34.7	20.1*		
Fisher Creek	2/01	EST	19.5	32.8	28.0e	Park View	1/26	36	7.5	6.3	6.0*		
Fisher Creek Pillow	2/01	EST	21.6	29.2	26.6e	Phillips Bench	1/29	72	23.4	28.5	17.8		
Five Springs Falls	1/30	21	2.2	7.6	5.7	Phillips Bench Pillow	1/29	-	18.3	26.0	-		
Four Mile Meadows	1/31	38	9.9	13.8	9.2	Pitchstone Plateau Aerial	- Delayed	-	-	-	36.9*		
Foxpark	1/29	28	7.2	9.8	4.0	Pocket Creek	1/30	43	9.2	10.4	8.4		
Freds Mountain	1/29	53	13.6	21.6	13.9e	Poison Meadows	1/29	68	19.2	33.1	20.1		
Geneva Pass Aerial	2/02	46	12.0	11.7	11.4	Pole Mountain	1/29	25	6.1	3.5	4.3		

BASIC DATA SUPPLEMENT 1

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD		DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)			Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. †					Last Yr.	Ave. †
Powder River Pass	2/01	37	9.5	11.4	8.3*						
Purgatory Gulch	- No Report	-	-	7.5	7.3*						
Rabbit Ears	1/26	69	18.3	24.8	15.8						
Ranger Creek	2/01	33	8.2	8.9	7.1						
Reuter Canyon	1/30	36	9.4	6.4	6.4*						
Roach	1/28	55	15.8	15.5	11.5						
Rock Creek	1/29	EST	17.5	21.3	15.7*						
Rowdy Creek	1/28	53	15.6	25.4	15.8						
Ryan Park	1/30	34	8.6	9.0	7.6*						
Salt River Summit	1/30	46	12.2	18.0	11.0						
Salt River Summit Pillow	1/30	-	12.3	-	-						
Sandstone Ranger Station	1/31	48	13.8	14.3	-						
Sawmill Divide	2/01	33	7.9	9.3	-						
Sawmill Glade	1/31	25	7.4	4.4	6.0						
Shell Creek	2/01	44	12.0	14.5	9.9						
Sheridan Ranger Station	2/01	33	8.3	7.0	5.2						
Snake River Station	1/29	54	15.6	21.8	14.6						
Snider Basin R.S.	1/29	45	13.4	20.2	11.7						
Snow King Mountain	1/30	46	12.7	14.5	10.5						
Soldier Park	2/01	20	4.8	4.9	3.9						
Sour Dough	2/01	26	5.9	4.7	4.3						
South Brush Creek Pillow	1/31	-	7.1	5.7	-						
South Pass	1/31	47	12.7	10.3	10.1						
South Thomas Fork	1/29	41	10.8	17.2	11.8*						
Spirit Lake	1/30	39	9.8	4.1	-						
Spring Creek Divide Pillow	1/29	-	14.7	23.2	-						
State Line	1/29	46	12.4	10.8	10.0						
Steamboat Point	2/02	24	6.1	6.2	5.3						
Steel Creek Park	1/30	37	9.0	11.6	-						
Stillwater Camp	1/30	33	7.8	8.0	-						
St. Lawrence R.S.	1/30	26	5.2	3.0	4.7						
St. Lawrence R.S. Pillow	1/30	-	6.7	3.3	-						
Sucker Creek	2/02	30	7.4	8.6	8.1						
Sweetwater Mountain Pillow	1/27	-	4.8	-	-						
Sylvan Pass	2/03	37	8.0	14.4	10.0						
T-Cross Ranch	1/31	33	8.3	9.0	4.9						
Teton Pass W.S.	1/29	67	21.8	23.7	16.8*						
Thumb Divide	1/29	44	11.3	16.3	15.1						
Timber Creek	- Delayed	-	-	0.9	2.2						
Togwotee Pass	1/31	62	19.0	29.3	20.1						
Togwotee Pass Pillow	1/31	-	16.6	26.5	-						
Townsend Creek	1/31	27	5.8	3.1	-						
Trial Lake	2/03	61	16.8	21.1	15.6						
Triple Peaks	1/28	57	17.6	32.0	18.7						
Turpin Meadows	1/31	38	10.1	13.1	7.7						
Twenty-One Mile	1/28	38	9.7	15.9	13.6						
Two Ocean Plateau Aerial	- Delayed	-	-	-	20.8*						
Tyrell Ranger Station	2/01	29	7.0	8.6	5.8						
Upper Spearfish	1/29	26	5.2	3.7	4.6						
Warren Peak	1/30	30	7.6	5.5	6.2*						
Webber Spring	1/31	EST	18.0	21.2	14.5						
Webber Spring Pillow	- No Report	-	-	-	-						
West Yellowstone	1/28	32	7.8	11.0	8.9						
Whiskey Creek	1/31	EST	25.0	28.3	-						
White Mill	2/01	EST	16.0	25.6	21.2e						
White Mill Pillow	2/01	EST	15.0	23.2	17.8e						
Willow Creek Pass	1/26	45	10.8	9.9	7.8						
Wolverine	1/30	43	13.2	13.0	9.3*						
Wood Rock G.S.	2/01	27	6.2	-	7.1						
Young's Ranch Aerial	1/30	54	12.4	24.4	11.9*						
Younts Peak Aerial	- Delayed	-	-	-	13.8*						
* Less than 15 years e Estimated average											

* Less than 15 years
e Estimated average



**SNOW COURSES AND RELATED
DATA MEASURING SITES
WYOMING**

1979



- LEGEND**
- Snow Data Measuring Site
 - - - Watershed Boundary
 - Sub-watershed Boundary

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INDEX TO WYOMING SNOW COURSES AND DATA SITES

Drainage Basin and Subdrain Name	WYOMING NUMBER	ELEV. LAT	SEC.	LOCATION
MISSOURI RIVER DRAINAGE				
Madison River				
Black Bear m	11635	7550 37	15S	5E
Norris Basin	10625	7900 44'45"		110°42'51"
Old Faithful	10618	7400 44'27"		110°49'49"
22 Mile m	11166	7650 34	11S	5E
West Yellowstone m	11127	6700 34	13S	5E
Yellowstone				
Canyon	10635*	7940 44'44"		110°30'37"
Electric Mountain m	9805	6960 46'29"	9S	110°50'00"
Firehole	9805	6960 46'29"		110°50'00"
Lake Camp	10649	7780 44'53"		110°24'34"
Lupine Creek	10617	7380 44'55"		110°37'37"
Northeast Entrance m	10079	7400 33	9S	14E
Picnic	10616	7400 33		110°42'44"
Pitchstone Plateau	10616A	8520 44'16"		110°24'34"
Thumb Divide	10617A	7460 44'22"		110°34'34"
Two Ocean Plateau	10617A	9160 44'09"		110°12'12"
Sylvan Pass	10655*	7100 44'29"		110°02'12"
Clerk's Fork				
Coke Station m	907	8150 19	9S	13E
Fishers Creek	906	8199 11	9S	13E
Parlier's Peak	982A	8700 44'04"		110°55'55"
Wolf	982A	8700 44'04"		110°55'55"
Mohavine	988	8710 44'48"	9S	108°39'39"
Wind River				
Big Warm	9814	8750 43'41"	29	108°
Battle Creek	9820	8400 19	42N	108°40'40"
Castle Creek	9820	8400 19	43N	104°
Glenwood	9810*	10160 33	38N	105°
Ombur Creek	986	8760 27	42N	108°
Little Warm	9814	8620 24	41N	108°
Sherridan R.S.	9814	7720 3	42N	109°
T-Cross Ranch	983	7900 1	43N	107°
Topogee Pass	1059*	9580 28	44N	110°
Popo Agie River				
Blue Ridge	862	9620 23	31N	101°
Hobbs Park	963*	10100 22	3S	3W
Hiddle Fork	866	7420 24	32N	101°
South Pass	863	9040 13	30N	101°
St. Lawrence R.S.	9811*	8890 26	1N	44°
Townsend Creek	867*	8700 42'41"		108°33'33"
Owl Creek	881*	8975 29	43N	101°
Greybull River				
GreyP	7930 23	47N	103°	
Shoshone River				
Carter Mountain	9824P	7950 10	50N	103°
East Entrance	985	6960 44'29"		110°00'00"
Marquette Creek	985A	8760 44'29"	50N	108°02'02"
Yount's Peak	9818A	8330 43'56"		109°49'49"
Nowood Creek				
Beart Creek	7833	7900 43'31"	45N	86°
Medicine Lodge Lakes	7833	7900 43'31"		107°05'05"
Medicine Powder	7824	7340 9	51N	88°
Nowood	7824	7750 9	42N	86°
Union Gulch	7804*	8600 43'27"		109°21'21"
River Pass	7804*	8600 43'27"		109°21'21"
Tyrell R.S.	7835	8480 48	48N	85°
	7835	8350 30	49N	86°
Shell Creek				
Bald Mountain	7821*	9380 29	56N	91°
Bone Spring Divide	7818*	9330 44'40"		107°34'34"
Banger Creek	7854	8120 20	53N	88°
Shell Creek	7823*	9580 44'30"		107°26'26"
Percupine Creek				
Five Springs Falls	7821	7620 20	56N	92°
Tongue River				
Big Goose	7822	7760 46'40"	53N	86°
Burgess R.S.	7833*	7880 36	56N	89°
Done Lake	7834*	8870 44'05"		107°18'18"
Goose Pass	7837A	9400 44'29"		107°17'17"
Northern Tongue	7835	8450 8	55N	89°
South Divide	7835	9260 44'38"		107°23'23"

Drainage Basin and Source Name	Watershed Number	Elev.	Sec. Lat.	Long.
Steamboat Point Sucker Creek G.S.	7E10 7E12* 7E13	7560 8880 8440	29 44°04'N 44°04'N	56N 107°24'W 107°24'W
Powder River				
Beet Trap	7F1A	7900	3	45N
Clouds Park	7E36A*	9850	42°04'N	107°00'W
Hiddle Powder	7F2*	7760	9	42N
Huddy Creek G.S.	6E2	7820	31	48N
Onion Gulch	7E27P	8780	31	48N
Powder River Pass	7E6*	9480	6	48N
Soldier Park	7E5	8780	42°04'N	107°00'W
Sourough	6E1	8460	44°13'N	107°00'W
Sweetwater				
Gardner Meadows	8G4	8860	19	30N
Larsen Creek	9G6	9020	42°06'N	109°05'W
South Pass	8E3	9040	13	30N
Lormerie River				
Brooklyn Lake	6H13*	10280	14	16N
Cameron Pass	5J1*	10320	2	6N
Deadman Hill	5J6*	10200	26	10N
Elk River	6H12	9060	21	13N
Popark	6H12	9060	21	13N
Halfpin Turn	6H2	9460	19	16N
Libby Lodge	6H3	8750	29	16N
Lost Lake	5J23	9300	32	8N
Mountain Creek	5J23	9300	32	8N
Pole Mountain	5H1P	8360	23	15N
Rosch	6J12	9800	15	11N
Grow Creek				
Pole Mountain	5H1P	8360	23	15N
North Platte				
Albany	6H11	9120	17	28N
Artesian Lake	6H16	8800	27	17N
Bowling Green	5J1*	8600	33	18N
Boxelder	5G1	7280	19	30N
Buck Creek	5G3	7900	8	30N
Cameron Pass	5J1	10285	2	6N
Chadron	5J2P	9000	24	7N
Chadron Lake	5J2P	9000	24	7N
Colbyne	6J3*	9300	21	5N
Deep Lake	6H17	10500	32	17N
Elk River	6H4	8700	6	11N
Elk River	6H4	8700	6	11N
Jon Wright	5J13*	7000	35	7N
LaSante	5G2	7150	24	27N
LaPaire	5J4*	8375	42°06'N	105°55'W
Moss Lake	6H16	8800	27	17N
North Platte Creek	6H16	8800	27	17N
North French Creek	6H4	10180	27	16N
North French Creek	6H20*	10125	27	16N
Northgate	617	8500	7	11N
Old Battle	6H10*	9920	29	14N
Purgatory Gulch	6H18	9070	41°08'N	106°26'W
Rock Creek	6H16P	9880	9	17N
Sand Lake	6H6	8500	28	16N
Sand Lake Creek	6H23*	10090	47°28'N	106°51'W
Spring Creek	6H9	9250	23	14N
Willow Creek Pass	6J5*	9500	1	4N
Cheyenne River				
Beet Lodge Divide	4E7P	4680	20	53N
Mallo	4E5	4620	28	60N
Mountain	4E4	5560	8	48N
Reuter Canyon	4E3	6280	33	63N
Sweetwater Mountain	4E6P	5860	16	47N
Warren Peak	4E1P	6320	20	52N
COLORADO RIVER DRAINAGE				
Green River above Green River				
Big Sandy Opening	9G9*	9080	21	31N
Elise Ram Summit	10G2*	8650	42°05'N	110°56'W
Grand Ram Divide	10F7P	7930	32	37N
Elkhart Park	9E23*	9400	45°00'N	108°11'W
Geopark	10F8*	7760	23	38N
Greenhorn P.S.	10F15	7400	23	38N
Loomis Park	10F16*	8240	14	37N
New Park Lake	9F21	8240	11	36N
Picket Creek	9G11	9350	42°04'N	109°29'W
Poison Meadows	10G6	8500	42°03'N	110°43'W
Roody Creek	10G21	8300	42°06'N	110°23'W
Snider Basin P.S.	10G13*	8060	15	29N
Spring Creek Divide	10G20*	9000	42°02'N	110°40'W
Spring Peaks	10G15	8500	42°06'N	110°43'W

WATERFALL NAME	ELEV.	SEC.	LOC.
WATERFALL	ELEV.	SEC.	LOC.
Green River below Green River			
BIG Park	8620	7	27N
Big Park Junct.	1011		
Black Pasture	1012A	9	27N
East FK B.N.H. FK C.S.	1012B	9	27N
Elk River c	9201	25	28N
Hyden Fork u	1017	9000	25
Hickerson Park u	1017A	9000	25
Hickerson R.S. u	1017A	9000	25
Hickerson Park u	918	1010	24
Mole-in-the-neck u	9181	9180	13
Hole-in-the-neck GS u	1013	8300	12
Middle Beaver Creek u	1012	8550	31
Old Battle	6810*	9020	29
Steel Creek Park u	10320A	9900	17
Spirit Lake u	917	10300	10
Trial Lake u	1018P	9800	5
Little Snake River			
Buttle Mountain	784P	7880	12
Cottonwood Hill c	784P	7880	12
Duck Creek	782	7880	12
Elkhorn c	6336	8475	21
Elk River c	640P	8700	6
Horseshoe Creek	703P	8350	10
Whiskey Creek	6822	8950	13
COLUMBIA RIVER DRAINAGE			
Snake River Basin (above Jackson Lake)			
Arizona	10F1	6820	4359*
Aster Creek	10E8*	7550	4401*
Beaver Creek	10E10	7040	4210*
Goulter Creek	10E13	7040	26
Grassy Lake	10E13P*	7565	18
Hackberry Divide	10E14	7300	4400*
Lake Divide	10E14	7300	4400*
Noran	10P4	6750	19
Noran Bay	10F3	6810	4395*
Pitchstone Plateau	10E16A	8320	4491*
Ridge Station	10E16B	8320	4491*
Two Ocean Plateau	10E17A	9160	4409*
Jackson Lake To Palisades			
Affen R.S.	10F7	8500	4397*
Blind Bull Summit	10G2*	8650	4257*
CCC Camp	10F14	6620	9
CCC Ram Divide	10G7	7000	4231*
Elbow Ranch	10F17P	7930	32
Four Mile Headwaters	10R28	7100	25
Grey's Boundary	10F18	5720	33
Grover Park Divide	10G3P	7000	4248*
Loomis Park	10H13	8240	14
Phillips Bench	10E23*	8200	4291*
Shaw River Summit	10G8*	7000	4231*
Snow King Mountain	10R20	7660	4
Tooptone Pass	10P5	9980	28
Turpin Meadows	10S5	9580	28
Young's Ranch	10E14	8650	4255*
Teton River			
Oreby Canyon	10E21A	8250	28
Orda Mountain	10E25	9400	33
Jackpine Creek	10R26	7350	15
Miles Creek	10R27	7300	13
Teton W.S.	10R24	7740	4390*
Seor River			
BIG Park	10C11	8620	7
CCG Camp	10G7	7000	4231*
Berrie-Hiller Ranch u	10L1	9000	38
Kelly R.S. u	10G12*	8180	1
Monte Cratic R.S. u	11M12	8960	4
Pontoon Meadows	10O6	8510	4293*
Salt River Summit	10C10	8510	4311*
Tetlin Lake u	10J18P	9800	27
Tetlin Lake u	10J18P	9800	27
Footnotes:			
a. Collected snow courses			
b. South Dakota snow courses			
c. Aerial Snow Depth Gauge			
d. Aerial Snow Depth Gauge			
e. Snow Pillar			
f. SNOWTEK slip consisting of snow with liquid refractory			

- c. Colorado snow courses
- m. Montana snow courses
- sd. South Dakota snow courses
- u. Utah snow courses
- A. Aerial Snow Depth Gage
- P. Peirson Storage Gage
- S. Snow Pillow
- * SNOTEL site consisting of a snow pillow, snow depth gage, and temperature instrument.

Agencies Cooperating in Wyoming Snow Surveys

FEDERAL

U.S. Department of Agriculture
Forest Service
Soil Conservation Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service
Indian Service

STATE

State Engineer of Wyoming

University of Wyoming
Department of Atmospheric Resources
Department of Agricultural Engineering

PRIVATE

Irrigation Districts
Greybull Valley Irrigation District
Wheatland Irrigation District

Conservation Districts
Big Piney
Big Sandy
Bridger Valley
Clearwater
Cody
Dubois-Crowheart
Greybull-Shell
Lake DeSmet
LaPrele-Glenrock
Laramie Rivers
Lincoln
Little Snake River
Medicine Bow
Pinedale
Platte County
Powder River
Powell-Clarks Fork
Riverton
Saratoga-Encampment-Rawlins
Shoshone
Teton
Washakie

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Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

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